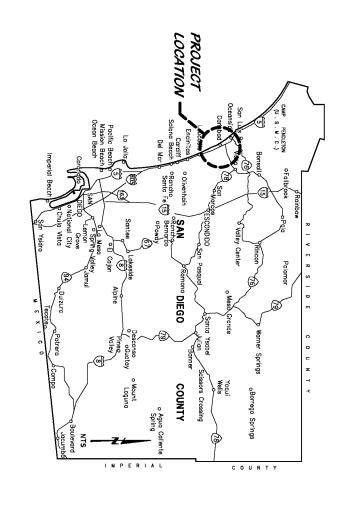
# DEPARTMENT OF FISH & GAME, In Association CALIFORNIA STATE LANDS COMMISSION

# BATIQUITOS LAGOON MAINTENANCE DREDGI Carlsbad, California NG 2011-2012

8-25-11



PACIFIC OCEAN

QUITOS LAGOON

IARA PRKWY

OR YNOXAS

### LOCATION MAP

## PROJECT REFERENCE DOCUMENTS

- KINNETIC LABORATORIES INCORPORATED. 2010. BATIQUITOS LAGOON SEDIMENT SAMPLING PROJECT SUMMARY + APPENDICIES. PREPARED FOR CALIFORNIA DEPARTMENT OF FISH & GAME. (MARCH 9, 2010)





E ALERT OF SOUTHERN CALIFORNIA

AT LEAST TWO DAYS
BEFORE YOU DIG 1-800-422-4133

NO.	DWG	TITLE
1	C-1	PROJECT LOCATION AND VICINITY MAP
2	Ç-2	PROJECT NOTES

- OVERALL SITE PLAN STAGING & PHASING NOTES
- SITE PLAN EAST & CENTRAL BASINS
- SITE PLAN CENTRAL BASIN
- SITE PLAN WEST BASIN
- SITE PLAN STORM DRAIN & REVETMENT RESTORATION SITE PLAN - BEACH NOURISHMENT
- CROSS SECTIONS
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- CROSS SECTIONS



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3890 MERPHY CANYON ROAD, SUITE 200
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(858) 573-8900



NOTE:

CONTRACTOR IS ADVISED THAT THIS PROJECT INVOLVES WORK IN A FLUCTUATING MARINE TIDAL ENVIRONMENT ON SOFT, MARINE SEDIMENT WITH AN UNSTABLE BASE. CONTRACTOR SHALL TAKE DUE PRECAUTIONS AND CARE IN ANTIOPATING PROBLEMS THAT MAY ARISE THEREFOM, ALL WORK SHALL BE IN CONFORMANCE WITH ALL REGULATORY AGENCY PERMITS, ENVIRONMENTAL CONDITIONS AND SPECIFICATIONS CONTAINED HEREIN.

VICINITY MAP

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VOID APPLICATION FOR

MAINTENANCE DREDGING 2011 - 2012 **BATIQUITOS LAGOON** ARLSBAD, CALIFORNIA

IF DRAWING IS NOT FULL SIZE (24X36)
THEN REDUCE SCALE ACCORDINGLY CALIFORNIA STATE LANDS COMMISSION

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

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#### GENERAL NOTES

- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FUNCTIONALITY OF ALL UTILITY SERVICES DURING THE CONSTRUCTION PERIOD.
- ALL CONSTRUCTION SHALL COWFORM TO ALL FEDERAL, STATE AND LOCAL PERMITS, CODES, ORDINANCES, RESTRICTIONS AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, ELEVATION, AND DIMENSIONS OF ALL EXISTING FACILITIES, IMPROVEMENTS, EXISTING UTILITIES, AND ALL OTHER CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.
- NOTES AND DETAILS ON THE PLANS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES IN CASE OF CONFLICT.
- WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE PLANS OR REGIONAL STANDARD DRAWINGS, (CURRENT EDITION)
- THE CONTRACTOR'S WEEKLY CONSTRUCTION ACTIVITIES SHALL BE IMMITED TO MONDAY THROUGH SATURDAY 7 AM TO 7 PM, UNLESS OTHERWISE APPROVED BY THE OWNER, THE CONTRACTOR SHALL BE COORDINATION OF THE ENGINEER'S INSPECTION ACTIVITIES. THE CONTRACTOR SHALL, AT ALL TIMES, OBSERVE AND COMPLY WITH ALL LABOR CODE REQUIREMENTS.
- UPON COMPLETION OF EACH DAY'S WORK, THE CONTRACTOR SHALL LEAVE THE WORK AREA FREE OF HAZARDS AND WINDBLOWN DEBRIS. CONTRACTOR SHALL PROVIDE ALL RECESSARY TEMPORARY SIGNS, WARNING DEVICES, AND BARRICADES.
- THE CONTRACTOR SHALL VERFY ALL DIMINSIONS AND ELEVATIONS BEFORE STARTING WORK, AND SHALL NOTIFY THE ENGINEER MMHEDIATELY OF ANY DISCREPANCIES.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THESE DRAWNIOS WERE OBTAINED FROM WIFORMATION PROVUED BY OTHERS AND REDULY AVAILABLE RECORD DATA. ALL UTILITIES AND STRUCTURES SHOWN ON THE DRAWNIOS ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AS NECESSARY AND MAKE EXPLORATORY EXCAVATIONS IF REQUIRED. CONTRACTOR SHALL PERFORM THIS VERIFICATION SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO THE PLANS IN THE EVENT OF A CONFLICT.
- LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE CONFIRMED BY FIELD MEASUREMENTS PERFORMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF NEW WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SLOPES AND DRAINAGE SYSTEMS ARE BUILT IN ACCORDANCE WITH THESE PLANS. SPECIFICATIONS IF THERE IS ANY QUESTION REGARDING THESE PLANS. SPECIFICATIONS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY SUBMITTING AN RFI DESCRIBING THE ISSUE AND REQUESTING GUIDANCE. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION, SILTATION OR TRACKING OF MUD THAT MAY RESULT FROM ITS OPERATIONS BY IMPLEMENTING BMP'S.
- CONTRACTOR SHALL FIELD VERHY ALL EXISTING CONDITIONS AND CONSTRAINTS BEFORE PERFORMING ANY WORK AND SHALL NOTIFY THE ENGNEER IF ANY ISSUES ARE IDENTIFIED.
- THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES PROTECT AND MAINTAIN ALL UTILITIES WITHIN THE PROJECT SITE. CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGE DUE TO CONTRACTOR'S OPERATION AT THEIR OWN EXPENSE. INCLUDING ANY MONUMENTS, FERLOWS, ROAD SUBFACES, SIGNAGE, SLOPE ARMORING, OR OTHER MATERIALS AND EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED RIGHT-OF-ENTRY PERMIT. CONTRACTOR SHALL ALSO MEET ALL INSURANCE REQUIREMENTS AND CONDITIONS NECESSARY FOR OPERATING WITHIN NCTD RIGHT-OF-WAY FOR SLOPE REPAIRS.

### SITE ACCESS AND USE

- THE ACCESS CORRIDORS AND PROJECT WORK AREAS ARE MAINTAINED IN A CLEAN AND ORDERLY FORM FOR SECURITY, SAFETY, AND/OR ECOLOGICAL RESOURCE PROTECTION. THE CONTRACTOR SHALL RESPECT AND IMPLEMENT HOUSEKEEPING MEASURES THAT DO NOT CONFLICT WITH THESE PURPOSES.
- 'n THE CONTRACTOR, ITS SUBCONTRACTORS, AND SUPPLIERS SHALL NOT, UNDER ANY CRCUMSTANCES, BRING DOMESTIC OR CAPTIVE ANIMALS ONTO THE WORK SITES, LEASHED OR OTHERWISE.
- THE CONTRACTOR SHALL MAINTAIN CAREFUL CONTROL AND CONTAINMENT OF ALL TRASH AND LITTER ON THE SITE. CLOSED TRASH CONTAINERS SHALL BE USED AT ALL TIMES A SHALL BE MAINTAINED SO THAT NO OVERFLOW OCCURS.
- CONTRACTOR SHALL MAINTAIN ITS WORK SITE AND SHALL BE PREPARED TO RESPOND TO ANY SPILLS OR ENVIRONMENTAL HAZARDS AS NECESSARY.
- ACCESS TO THE PROJECT SITE SHALL PRIMARILY OCCUR OFF OF PCH AND LA COSTA AVE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL OF PROPOSED ACCESS IMPROVEMENTS.

- .7 .6
- CONTRACTOR SHALL ONLY UTILIZE DESIGNATED ACCESS ROUTES AND SHALL NOT WANDER, STAGE, STORE, OR PARK EQUIPMENT OUTSIDE OF THE DESIGNATED AREAS. STATE ECOLOGICAL RESERVE GATES SHALL BE KEPT CLOSED AND LOCKED WHEN NOT IN USE.
- CONTRACTOR SHALL PROVIDE FLAGGERS WHILE EQUIPMENT IS MOVING THROUGH PUBLIC AREAS OR CROSSING ROADWAYS.
- 9 CONTRACTOR CAN PERFORM WORK BETWEEN 7AM TO 7PM MONDAY THROUGH SATURDAY.

#### **GRADING NOTES**

- CONTRACTOR SHALL TAKE EVERY REASONABLE PRECAUTION TO PREVENT FOREIGN MATERIAL AND DEBRIS FROM FALLING INTO THE LACCON DURING THEIR OPERATIONS. ANY FOREIGN MATERIALS OR EQUIPMENT, BUOYANT OR NON-BUOYANT, SHALL BE IMMEDIATELY REMOVED BY CONTRACTOR.
- ίΛ CONTRACTOR TO PROTECT IN-PLACE ALL EXISTING BURIED UTILITIES AND SURVEY MONUMENTS.
- CONTRACTOR SHALL IMPLEMENT BMP'S AND OTHER MEANS TO CONTROL ALL DUST GENERATED AS A RESULT OF HIS OPERATIONS. ALL WORK SHALL BE CONDUCTED IN COMPLIANCE WITH SSPEN SUBSECTION 7-8. SPRINKLING WITH WATER SHALL BE ACCOMPLISHED AS NECESSARY TO CONTROL DUST AND AIRBORNE SAND.

## SEDIMENT EXCAVATION/PUMPING NOTES

- PUMPING OF SEDIMENT. ALL SEDMENT PUMPING SHALL BE THROUGH WATER TIGHT DISCHARGE LINES. THESE LINES SHALL NOT LEAK SLURRY. IF A LEAK OCCURS, THE CONTRACTOR SHALL CEASE PUMPING IMMEDIATELY AND REPAIR THE LEAK PRIOR TO RESUMING OPERATIONS.
- CONTRACTOR SHALL CONTINUOUSLY MONITOR HIS PUMPING ACTIVITIES TO ENSURE NO UNINTENDED DISCHARGE OCCURS.
- 'n EXCAVATION 8 PUMPING PLAN: CONTRACTOR SHALL SUBMIT AN EXCAVATION AND PUMPING PLAN AND SCHEDULE TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO
- MATERIAL BALANCE: THE MATERIAL REMOVED FROM THE CENTRAL BASIN SHALL BALANCE WITH THAT PLACED ON THE BEACH. THE MATERIAL REMOVED FROM THE WEST BASIN AND REPLACED IN REPOZED AREAS IN THE WEST BASIN SHALL SEPARATELY BALANCE TO THE NORTH AND TO THE SOUTH OF THE INLET CHANNEL, SUCH THAT WORK CONSTITUTES A REPOSITION OF MATERIALS WITHIN THE SUB-BASINS WITHIN THEED FOR EXPORT OR ON-ROAD TRANSPORT OF MATERIAL. IF THE CONTRACTOR DETERMINES THAT MATERIAL BALANCES WOLLD NOT MEET THE PLAN CONDITIONS, CONTRACTOR SHALL DENTIFY THE CONTRACTOR THE OWNERS REPRESENTATIVE AND ADJUST GRADES AS DIRECTED TO ACHIEVE A BALANCE OF MATERIAL.

## BEACH NOURISHMENT NOTES

- BEACH NOURISHMENT SHALL BE LIMITED TO THE PLACEMENT OF SAND ONLY. ANY DEBRIS, TRASH, OR ROCK DISCHARGED TO THE BEACH SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INTERIM KNOCKDOWN OF ANY UNSAFE SCARPS THAT ARE DEVELOPED DURING PLACEMENT ACTIVITIES AND SHALL FINISH GRADE BEACH SLOPES TO A MAXIMUM GRADIENT OF 10:1 PRIOR TO COMPLETION OF BEACH WORK.
- CONTRACTOR SHALL DISCHARGE SAND TO THE BEACH BEHIND A BERM. BERM SHALL BE PUSHED OUT TO CREATE A SHORE PARALLEL SETTLING BASIN. SETTLING BASIN SHALL HAVE INTERMEDIATE BASINS OR CHEVRONS TO ENHANCE SAND CAPTURE PRIOR TO CARRIER WATER DISCHARGE. SETTLED SAND SHALL BE PUSHED TO FINAL GRADE WITH A BULLDOZER OR OTHER EQUIPMENT.

MERKEL & ASSOCIATES, Inc.

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## WATER POLLUTION/SPILL PREVENTION

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE TIDAL INLET FLOOD SHOAL MAINTENANCE DREDGING AND EROSION AND FENCING REPAIRS WITHIN THE BATIQUITOS LAGGON STATE ECOLOGICAL RESERVE. WORK IS TO BE DONE ACCORDING TO THESE PLANS, SPECIFICATIONS AND THE REGIONAL STANDARD DRAWINGS.

- CONTRACTOR SHALL IMPLEMENT STORM WATER POLLUTION PREVENTION AND THE APPLICATION OF BEST MANAGEMENT PRACTICES (BMPs) REQUIRED TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES SHOWN ON THE DRAWNOS.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING BUT NOT LIMITED TO AIR, WATER, ENVIRONMENTAL, TRANSPORT, AND DISPOSAL REGULATIONS.
- CONTRACTOR SHALL ENSURE THAT ANY DIRT OR DEBRIS TRANSPORTED ONTO PAVED SURFACES SHALL BE REMOVED AT THE COMPLETION OF EACH WORK DAY.
- ANY LUBRICATING FLUD, FUEL, GREASE, OR OTHER WASTE RELEASED FROM CONTRACTOR'S VEHICLES SHALL BE COLLECTED AND DISPOSED OF IMMEDIATELY, IN ACCORDANCE WITH STATE, FEDERAL, AND LOCAL REGULATIONS.
- ဂ်ာ ALL LUBRICANT AND FUEL TRANSFERS SHALL BE FULL TIME TENDED BY THE CONTRACTOR

### MATERIAL SPECIFICATIONS

- I. MATERIAL TO BE DREDGED FROM THE CENTRAL BASIN AND PUMPED TO THE COASTAL BEACH CONSISTS PRIMARILY OF FINE TO MEDIUM SAND DERIVED INITIALLY FROM LITTORAL SOURCES AND DEPOSITED WITHIN FLOOD SHOAL IN THE LAGOON. RARE AND SCATTERED COBBLE INCLUSIONS MAY OCCUR WITHIN THE DREDGE AREA, HOWEVER NONE HAVE BEEN NOTED IN SEDIMENT SAMPLING EFFORTS.
- 2. MATERIAL TO BE EXCAVATED AND REPLACED IN ERODED AREAS WITHIN THE WEST BASIN CONSIST OF PRIMARILY LITTORAL SANDS BUT MAY INCLUDE COBBLE DEPOSITS DUE TO THE HISTORICALLY HIGHER EMERGY EUNIFORMENT IN THIS BASIN. SOME LIMITED FINE SEDIMENT INCLUSIONS MAY ALSO OCCUR. THESE MATERIALS ARE TO BE CUT AND PLACED WITHIN THIS BASIN AND ARE NOT PROPOSED TO BE DREDGED AND EXPORTED.
- 3. CONTRACTOR IS ADVISED TO REVIEW REFERENCE DOCUMENTS KINNETIC LABORATORIES INCORPORATED 2010) REGARDING MATERIAL CHARACTERISTICS AND DEPTHS OF MATERIAL DEPOSITS. ALL DREDGING AREAS FALL WITHIN MAINTENANCE ZONES AND HAVE PRVIOUSLY BEEN OUT TO PROJECT DEPTHS.

#### SPECIAL NOTES

- CONTRACTOR SHALL STAKE THE MAXIMUM HORIZONTAL LIMITS OF NON-DREDGING WORK PRIOR TO CONSTRUCTION AND SHALL WALK THESE LIMITS WITH THE CDFG PRESERVE MANAGER, ENGINEER AND THE OWNER'S REPRESENTATIVE TO OBTAIN ACCEPTANCE PRIOR TO INITIATION C ANY WORK.
- THE FIRST ORDER OF WORK SHALL BE THE ESTABLISHMENT OF ORANGE CONSTRUCTION FEWCING ALONG THE LIMITS OF SENSITIVE HABITAT IMMEDIATELY ADJACENT TO EROSION REPAIR GRADING. THE LOCATION OF FENCING SHALL BE DETERMINED IN THE FIELD DURING THE PRE-GRADING WALK AND IS ESTIMATED TO BE APPROXIMATELY 1,000 FEET OF TEMPORARY FENCING.
- 3. CONTRACTOR SHALL PROVIDE ALL HYDROGRAPHIC AND CONSTRUCTION SURVEYING BEFORE, DURING AND AFTER CONSTRUCTION TO ENSURE COMPLIANCE WITH THESE DRAWINGS. AN INDEPENDENT CALIFORNIA LICENSED LAND SURVEYOR WITH EXPERIENCE IN HYDROGRAPHIC SURVEYING SHALL BE RETAINED FOR COMPLETION OF ALL SURVEYS UTILIZED FOR PAYMENT REQUEST PURPOSES, SEE SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL FEDERAL, STATE AND LOCAL SAFETY AND ENVIRONMENTAL PROTECTION MEASURES AS DICTATED BY PROJECT PERMITS AND EXISTING REGULATIONS.

#### SURVEY CONTROL

ELEVATIONS ARE REFERENCED TO A BENCHMARK SUPPLIED BY THE CALIFORNIA DEPARTMENT OF TISH AND GAME: 2" BRASS DISC LOCATED ON THE NW CORNER OF THE WEST CARLSBAD BLVD BRIDGE DECK, STAMEED "OC 146", NORTHING 1,977,165.4275 FT; EASTING 6,236,156.3748FT (SPCZ6 NAD 83); ELEVATION 15.39 FT (NGVD 29)

HORIZONTAL POSITIONS ARE REFERENCED TO THE CALIFORNIA STATE PLANE COORDINATE SYSTEM; ZONE 6 FEET (NAD 83).

### L STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION "GREENBOOK" (2009 EDITION), INCLUDING THE REGIONAL SUPPLEMENT AMENDMENT, DOC. NO. PITSO504092 FILED MAY 4, 2009. STANDARD SPECIFICATIONS;

- STANDARD DRAWINGS:
- CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FHWA'S MUTCD, 2003 EDITION, AS AMENDED FOR USE IN CALIFORNIA), DOCUMENT NO. AECIZ3064, FILED, DECEMBER 3, 2006.
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS DOCUMENT NO. AECO925062, FILED SEPTEMBER 25, 2006.

. REGIONAL STANDARD DRAWINGS, DOCUMENT NO. AECI231063, FILED DECEMBER 31, 2006.

## ESTIMATED MATERIALS QUANTITIES

BATIQUITOS LAGOON, CARLSBAD, CALIFORNIA

SITE LOCATION

EROSION REPAIRS EARTHWORK:
WEST BASIN NORTH SIDE:
CUIT. APPROX. 4.250 C.Y.
FILL: APPROX. 4.250 C.Y.
WEST BASIN SOUTH SIDE:
CUIT. APPROX. 15,750 C.Y.
FILL: APPROX. 15,750 C.Y.

DREDGING EARTHWORK: CENTRAL BASIN: PPROX. 118,000 C.Y.

STATE BEACH: FILL: APPROX. 118,000 C.Y.

BEACH GROOMING: APPROX. 6,500 C.Y.

NOTE: ALL QUANTITIES ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION BY CONTRACTOR WORKING WITH PROJECT ENGINEER.

#### UTILITY NOTES

UTILITIES HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE USING EXISTING RECORDS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL LOCATIONS AND ELEVATIONS OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AS REQUIRED PRIOR TO THE START OF WORK.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE PROTECT ANY UNDERGROUND OR CONCELLED CONDUIT, PLUMBING OR OTHER DIFFLORES WEERER NEW WORK IS BEING PERFORMED. BEFORE EXCAVATING, VERIFY LOCATION OF UNDERGROUND UTILITIES - CONTACT:

DIG ALERT 8II (OR) 1-800 422-4133



AT LEAST TWO DAYS BEFORE YOU DIG 1-800-422-4133

MINATION OF AN APPROPRIATE COURSE OF ACTION BEFORE CONSTRUCTION. FAILURE TO DO SO, WILL VOID APPLICATION FOR

CIVIL TOLL FREE

THE DRAWINGS INCORPORATED HEREIN HAVE BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. THE DESIGN PROFESSIONAL CANNOT ASSURE

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DESCRIPTION OF THE CONTRACT AWARD)

NOTE:
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ARLSBAD, CALIFORNIA

MAINTENANCE DREDGING 2011 - 2012 **BATIQUITOS LAGOON** 

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CALIFORNIA STATE LANDS COMMISSION

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

DRAWING IS NOT FULL SIZE (24X36) THEN REDUCE SCALE ACCORDINGLY

PROJECT NOTES

### **ENVIRONMENTAL NOTES**

- GENERAL
  THESE NOTES SHALL SUPPLEMENT CONDITIONS OF ENVIRONMENTAL PERMITS ISSUED FOR THE WORK. CONTRACTOR SHALL MAINTAIN A FULL SET OF ENVIRONMENTAL PERMITS ON THE PROJECT SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH THE REQUIREMENTS APPLICABLE TO THE CONTRACTOR'S WORK.
- IF CONFLICTS ARE FOUND TO EXIST BETWEEN ANY CONTRACT PROVISIONS, DRAWINGS, NOTES, SPECIFICATIONS, OR PERMITS, THE CONTRACTOR SHALL BRING THESE TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE AND ENGINEER FOR DIRECTION ON HOW TO PROCEED.
- STRINGENT COMPLIANCE WITH ENVIRONMENTAL CONDITIONS SHALL NOT RELIEVE CONTRACTOR FROM CONDUCTING WORK IN A PRUDENT AND ENVIRONMENTALLY PROTECTIVE MANNER.
- 4. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO PREVENT VISIBLE DUST EMISSIONS FROM LEAVING THE PROJECT SITE BOUNDARY, INCLIDING, BUT NOT LIMITED TO, WATERING PRIOR TO AND DURING ANY EARTH MOVEMENT, WATERING EXPOSED SOIL THREE TIMES PER DAY, INSTALLING WIND FENCING, COVERING EXCAVATED MATERIALS TO PREVENT EROSION, AND STOPPING WORK DURING HIGH WIND CONDITIONS. EFFECTIVE EROSION CONTROL SHALL ALSO BE IMPLEMENTED ON THE PROJECT SITE.
- THE CONTRACTOR SHALL COVER ALL HAUL VEHICLES TO REDUCE FUGITIVE DUST GENERATED DURING THE TRANSPORT OF MATERIALS FROM THE SITE.
- . THE CONTRACTOR SHALL NOT ALLOW CONSTRUCTION EQUIPMENT AND VEHICLES TO TRACK DIRT AND DUST ONTO ROADWAYS. EQUIPMENT AND THES SHALL BE WASHED/SWEPT PRIOR TO LEAVING THE PROJECT SITE. CHATTER PLATES AND A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED NEAR POINTS OF EQUIPMENT INGRESS/EGRESS.
- THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO FUEL AND MAINTAIN CONSTRUCTION EQUIPMENT AND CONSTRUCTION FACILITIES. ADDITIONALLY, ALL EQUIPMENT SHALL MEET APCD STANDARDS IN EFFECT AT THE TIME OF WORK.
- DREDGING WITHIN THE LAGOON AND CHANNEL SHALL OCCUR DURING THE NON-NESTING SEASON BETWEEN AUGUST 31 AND MARCH I.
- 9. THE FOLLOWING MEASURES SHALL BE TAKEN FOR ON-WATER WORK UNDER THIS CONTRACT.
- CONTRACTOR ACCESS WITHIN THE WATERS OF BATIQUITOS LAGOON SHALL BE LIMITED TO THE EQUIPMENT NECESSARY TO EXCAVATE/DREDGE MATERIALS AND TRANSPORT/PUMP THEM TO THE DESIGNATED RECEIVING SITES.
- $\ensuremath{\mathsf{B}}.\ensuremath{\mathsf{A}}$  five mile per hour boating speed limit in the lagoon shall be adhered to at all times.
- C CONTRACTOR SHALL MONITOR TIDES AND TIME VESSEL AND EQUIPMENT MOVEMENTS TO AVOID GROUNDINGS AND BOTTOM DISTURBANCE OUTSIDE OF WORK AREAS.
- IO. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE INFORMATION TO THE USEGG FOR THE NOTICE TO MARNIERS, DESCRIBING THE LOCATION OF THE PIPE. CONTRACTOR SHALL ALSO POST NOTICES IN THE AREA OF WORK.

CONTRACTOR SHALL OPERATE WITHIN THE LIMITS OF WORK AND SHALL UTILIZE THE LEAST DAMAGING ROUTE FOR SITE ACCESS.

PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT HAS OCCURRED TO THE NESTING SITES AND SHALL ENSURE THAT A CLEAN CAP OF SAND AND/OR SHELL HASH IS IN PLACE ON THE SITES TO MATCH OR IMPROVE UPON PREPROJECT CONDITIONS.

CONTRACTOR SHALL IMPLEMENT MEASURES TO PROTECT NATIVE WILDLIFE FROM INJURY DUE TO WORK PERFORMED. THESE INCLUDE KEEPING WORK WITHIN THE LIMITS OF CONSTRUCTION, IMPLEMENTING PROTECTION MEASURES, EXCLUDING DOMESTIC ANIMALS FROM SITE, CONTROLLING WASTE GENERATION AND DISPOSAL, AND REPAIRING ANY DAMAGE TO THE NESTING SITES PRIOR TO DEMOBILIZING.

SENSITIVE SPECIES AND RESOURCES

#### MEAN LOWER LOW WATER MEAN SEA LEVEL MEAN HIGHER HIGH WATER THE VERTICAL CONTROL AND BATHYMETRIC CONTOURS FOR THIS WORK ARE IN FEET NGVD. TO EVALUATE TIDAL CONSTRAINTS USING STANDARD TIDE TABLES IN FEET MLLW, CONVERSIONS MUST BE APPLIED, CONVERSIONS FOR STANDARD TIDAL AMPLITUDE METRICS FOR OCEAN TIDES ARE SHOWN BELOW. FEET, NGVD 29 FEET, MLLW -2.6 0.0 +0.6 +3.2 +3.1 +5.7

THE CONTRACTOR IS ADVISED THAT BATIQUITOS LAGOON IS A SHALLOW ESTUARY AND WORK MAY BE TIDALY CONSTRAINED AT VARIOUS TIMES DURING WORK.

TIDAL DATUM AND BATHYMETRIC CONSTRAINTS

- BATIQUITOS LAGOON IS A MUTED TIDAL SYSTEM THAT RESULTS IN TIDAL TIME LAGS AND INCOMPLETE DRAINAGE, THUS TRUNCATING THE LOWER PORTION OF THE TIDAL CURVE. AS THE SHOAL DREDGING IS PERFORMED, THE EXTENT OF LAG AND LOW TIDE DRAINAGE WILL INCREASE.
- CONTRACTOR IS ADVISED TO CONSIDER SHALLOW LAGOON BATHYMETRY WITHIN PROJECT WORK AREAS AND ALONG TRANSIT CORRIDORS AND TO PLAN DEEPER DRAFT EQUIPMENT MOVEMENTS ACCORDINGLY TO AVOID VESSEL GROUNDING.

### **ENVIRONMENTAL NOTES**

- CONTRACTOR SHALL LIMIT THE USE OF STAGING AREAS TO EQUIPMENT NECESSARY TO PERFORM THE REQUIRED WORK.
- NO STAGING OR MATERIAL STORAGE SHALL OCCUR WITHIN PUBLIC PARKING AREAS OF THE LA COSTA PARK  $\boldsymbol{\theta}$  RIDE.
- 3. CONTRACTOR SHALL BE ALLOWED TO PUT CONTRACTOR LOCKS ON CDFG GATES AND SHALL MAINTAIN GATES IN A CLOSED AND LOCKED CONDITION IN ORDER TO RESTRICT ACCESS TO THE ECOLOGICAL RESERVE.
- CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN MANNER AND SHALL SECURE ALL TRASH, INCLUDING FOOD WASTES, IN CLOSED WASTE CONTAINERS.
- CONTRACTOR SHALL PROVIDE PORTABLE RESTROOM FACILITIES FOR ITS EMPLOYEES THAT SHALL BE SECURED AGAINST WINDS TO AVOID OVERTURNING IN THE WIND.
- UPON COMPLETION OF WORK, CONTRACTOR SHALL REMOVE ALL CONTRACTOR MATERIALS AND WASTES FROM THE SITE, INCLUDING PIPELINE CUTTING PLASTIC AND SHALL RESTORE ANY SITE DAMAGE.

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SERVICE ALERT OF SOUT HERN CALIFORNIA

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OF ACTION BEFORE

VOID APPLICATION FOR

ARLSBAD, CALIFORNIA

CALIFORNIA STATE LANDS COMMISSION SS.

MAINTENANCE DREDGING 2011 - 2012 BATIQUITOS LAGOON PROJECT NOTES

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

DRAWING IS NOT FULL SIZE (24X36)
THEN REDUCE SCALE ACCORDINGLY

